

ABSTRACT

Electro-kinetic air transporter and conditioner systems and methods are provided. A system includes at least one emitter electrode and at least a one collector (and likely, at least a pair of collector electrodes) that are downstream from the emitter electrode. An insulated driver electrode is located adjacent a collector electrode, and where there is at least a pair of collector electrodes, between each pair of collector electrodes. A high voltage source provides a voltage potential to the at least one of the emitter electrode and the collector electrode(s), to thereby provide a potential different therebetween. The insulated driver electrode(s) may or may not be at a same voltage potential as the emitter electrode, but should be at a different voltage potential than the collector electrode(s).